

LPFM Availability Maps reflecting REC's proposed 2x70 FM Translator handling plan plus other REC proposed LPFM service changes



Overview

This document contains maps that use REC"s Every Nook And Cranny (ENAC) reporting system to determine the availability of LPFM channels under different operating conditions. These maps check locations at more than 200,000 Census Block Groups in the 50 states. Two different proposed criteria is used on this particular map:

REC 2x70 FM Translator Plan	Each pending Auction 83 FM translator is evaluated to determine how many Census Block Groups within the 60 dBu service contour show at least two or more properly spaced (2 or more channels) LP-100 stations reflecting the LCRA's removal of third adjacent channels. If the Census Block Groups that meet this criteria represents 70% of the population of all Census Block Groups within the translator's 60 dBu service contour, then the translator meets criteria. Translators with no Census Block Groups within the 60 dBu service contour will automatically meet criteria. In addition, translators with proposed output power and HAAT that does not meet 74.1525(b) of the FCC rules also do not meet criteria. On results that reflect 2x70, a translator application that does not meet this criteria is not considered when looking for LPFM facilities in this specific report.	
REC's LPFM proposed changes	REC's proposed changes to the LPFM service include:	
	 Elimination of IF protection requirements for LP-100 stations. 	
	 Increasing the number of FM Translator "sub-classes" for LPFM protection from 3 to 8. 	
	Removal of second adjacent channel protection to FM Translators.	
A	LPTV Channel 6 protection by LPFM reflects LPTV's actual service contour.	

A majority of the improvements will come from the 2x70 implementation.

Second Adjacent Channel Potential depictions on the map

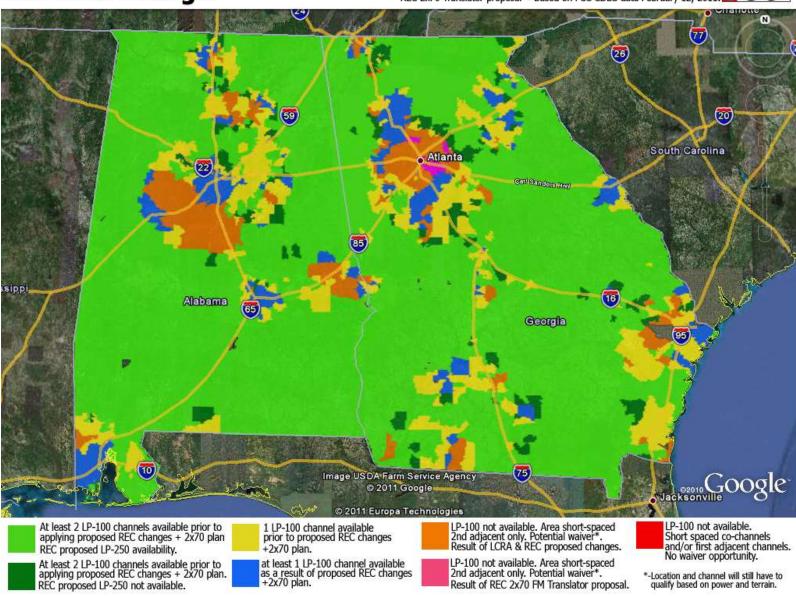
When a location is showing as a second adjacent channel waiver potential, this indicates only that when a check was done on that location for LPFM, it was not short spaced on the co-channel or first adjacent channel (as well as third adjacent and IF for foreign allotments) and for potential channels under 220, there's no TV or LPTV Channel 6 stations short spaced. Only the second adjacent channel is short spaced. This does not mean that an LP-100 station may be put at that location. It only means that additional engineering research is required to determine if an LPFM station can be placed there using the second adjacent channel waiver provisions of the LCRA

Colors on the map

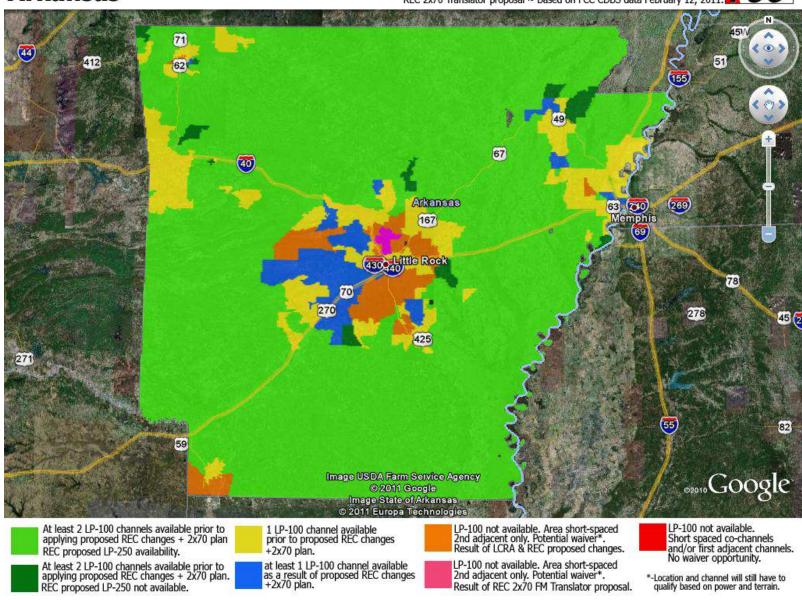
LIGHT GREEN	This is a location where a minimum of 2 LP-100 channels are available reflecting LCRA but without 2x70. In the event there is ever a 250w at 30m HAAT LPFM service in the future, this location would be qualified for that service. On the <u>state</u> maps, areas of the state that are not shown fall into this category.
DARK GREEN	This is a location where a minimum of 2 LP-100 channels are available reflecting LCRA but without 2x70. In the event there is ever a 250w at 30m HAAT LPFM service in the future, this location would not be qualified for that service.
YELLOW	This is a location where one LP-100 channel is already available reflecting LCRA but without 2x70. It is very possible that with 2x70, more than one channel will become available at that location.
BLUE	This is a location where LCRA but without 2x70, no LPFM service would be available. However, with applying the proposed 2x70 criteria and REC proposed LPFM changes, at least one LP-100 channel is available in this area.
ORANGE	This is an area where no LP-100 stations are available. With the LCRA and REC proposed changes, channels that are only short spaced on the second adjacent channel are in this area. Further engineering work needs to be done to determine if a second adjacent waiver can bring new LPFM service to this area.
PINK	This is an area where no LP-100 stations are available. With the LCRA, REC proposed changes and the 2x70 plan, channels that are only short spaced on the second adjacent channel are in this area. Further engineering work needs to be done to determine if a second adjacent waiver can bring new LPFM service to this area.
RED	This is an area where no LP-100 stations would be available even with LCRA, REC proposed changes and the 2x70 plan. There are no channels that are only short spaced on the second adjacent channel therefore, there does not appear to be any possibility of a second adjacent channel waiver in this area.

Areas with no colors (showing the satellite picture) are areas out of the state or where there is no population in the Census Blocks.

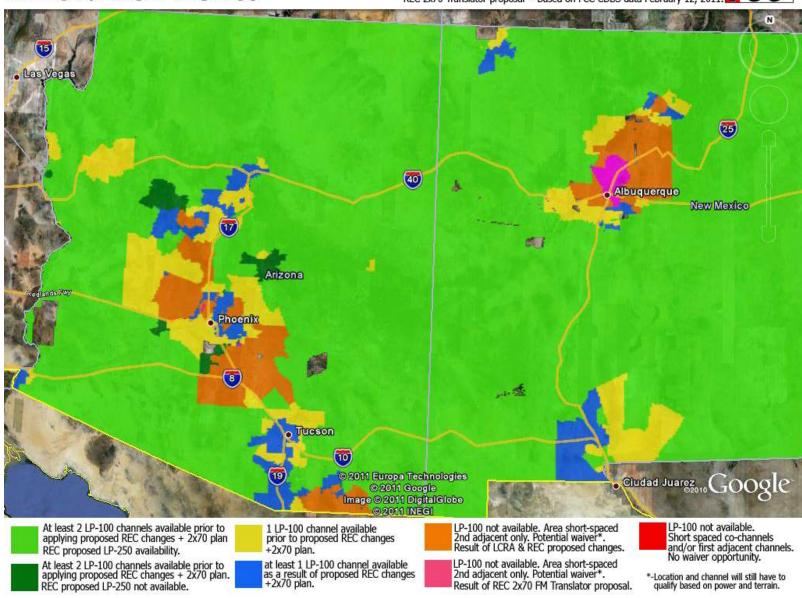
Alabama-Georgia



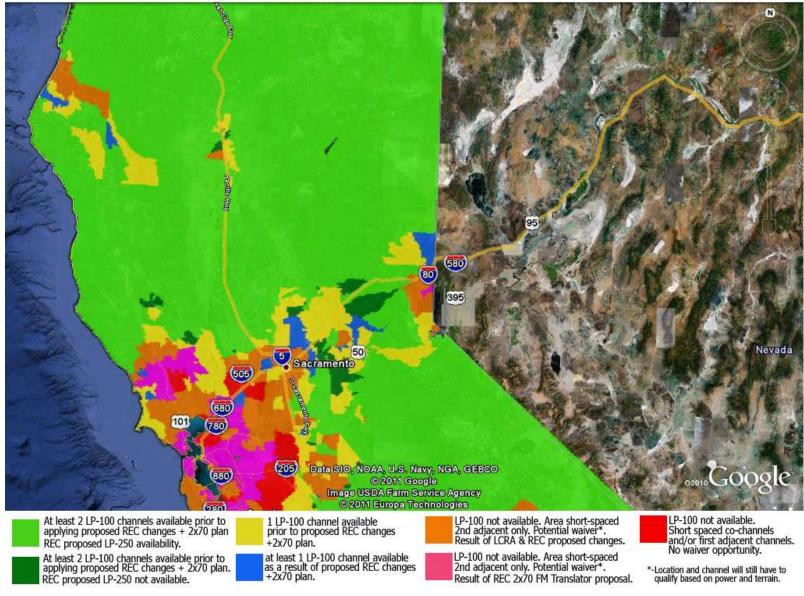
Arkansas



Arizona-New Mexico

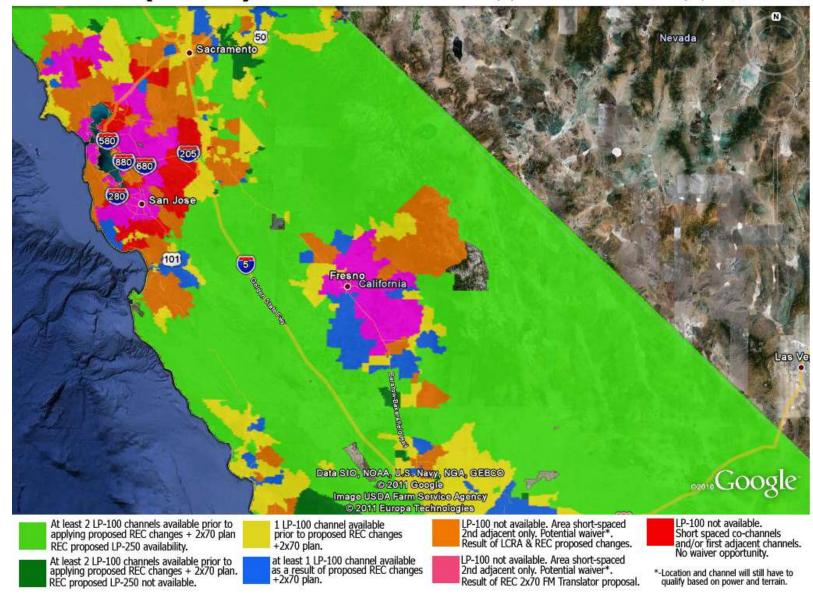


California (North)

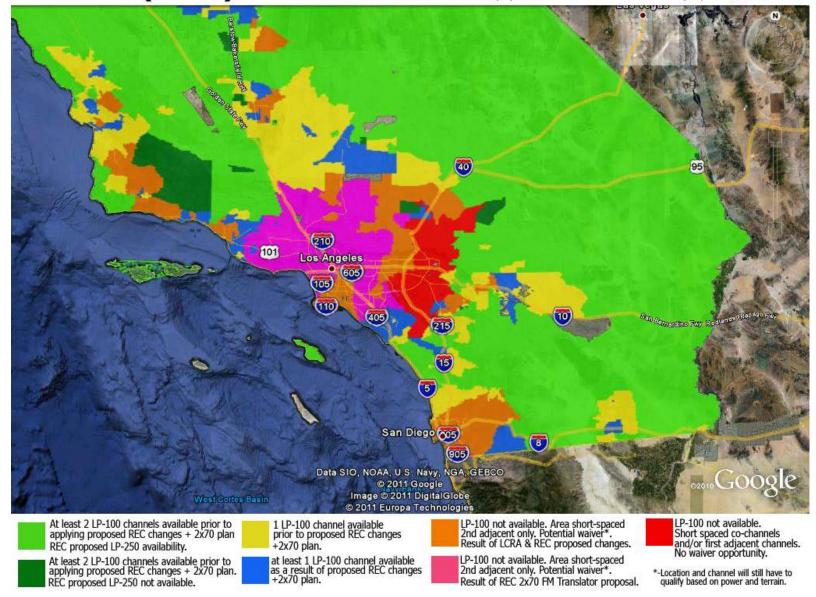


California (Central)

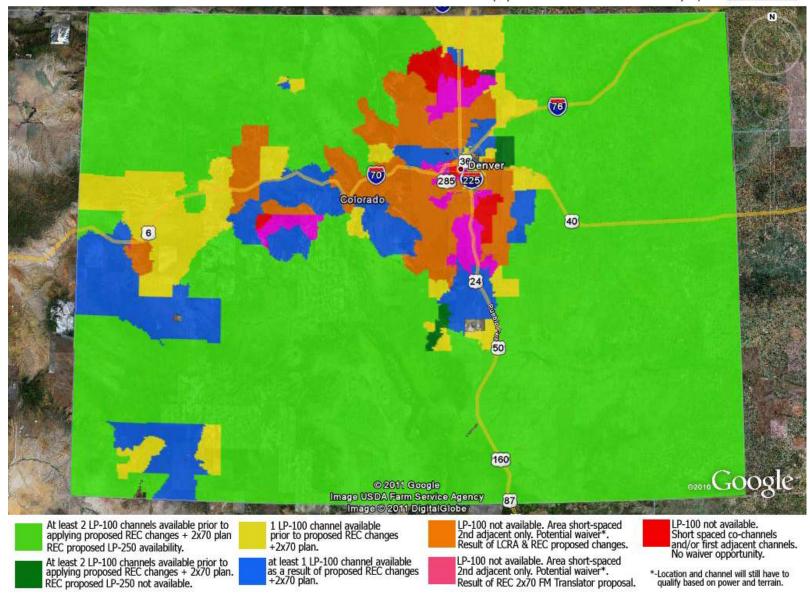




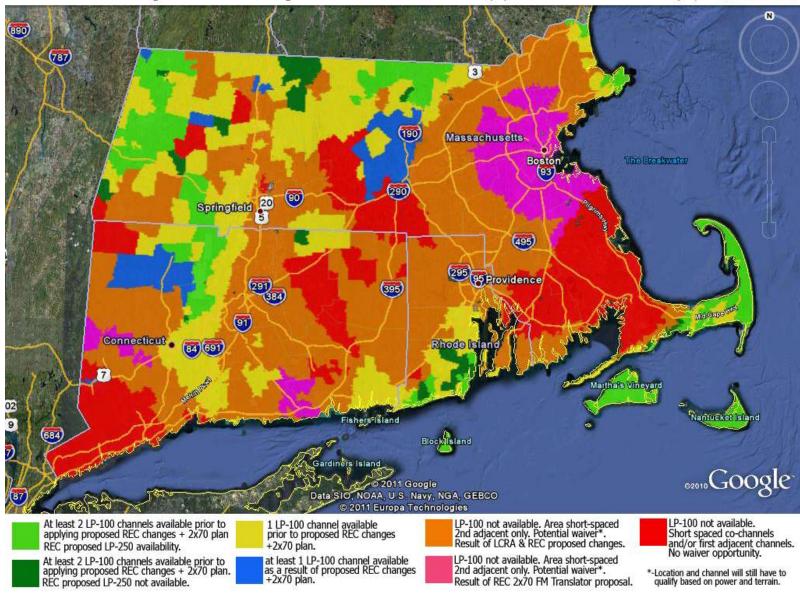
California (South)



Colorado



Connecticut/Rhode Is./Mass.



DC/DE/MD/VA/WV

REC Networks ~ Potential LPFM Availability Map REC 2x70 Translator proposal ~ Based on FCC CDBS data February 12, 2011.

Ohio Columbus Philade (68) Kantegality Maryland
District of Columbia Washington D.C.

Delaware

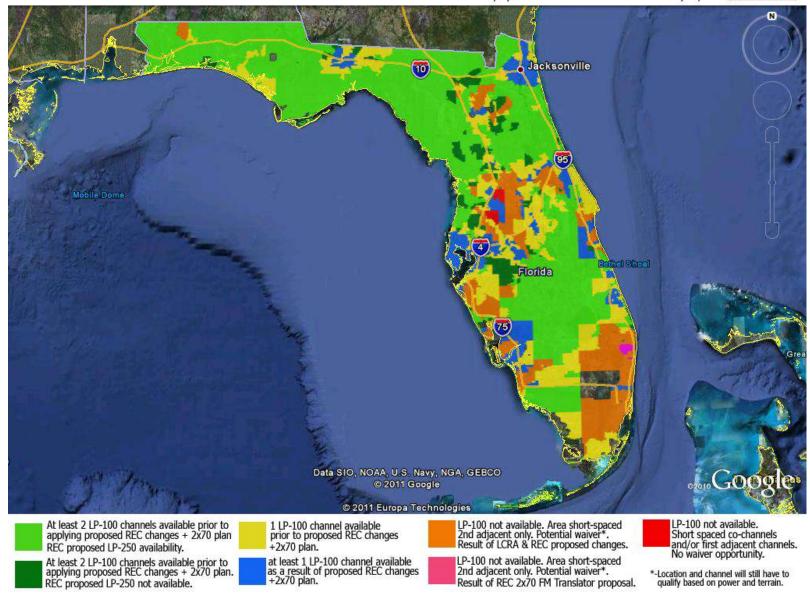
(95) West Virginia Virginia 85 Image USDA Farm Service Agency ...Google © 2011 Google © 2011 Europa-Technologies At least 2 LP-100 channels available prior to applying proposed REC changes + 2x70 plan LP-100 not available. Area short-spaced 2nd adjacent only. Potential waiver*. Result of LCRA & REC proposed changes. 1 LP-100 channel available prior to proposed REC changes +2x70 plan. LP-100 not available. Short spaced co-channels and/or first adjacent channels. No waiver opportunity. REC proposed LP-250 availability. at least 1 LP-100 channel available as a result of proposed REC changes +2x70 plan. LP-100 not available. Area short-spaced 2nd adjacent only. Potential waiver*. At least 2 LP-100 channels available prior to applying proposed REC changes + 2x70 plan. REC proposed LP-250 not available. *-Location and channel will still have to

Result of REC 2x70 FM Translator proposal.

qualify based on power and terrain.

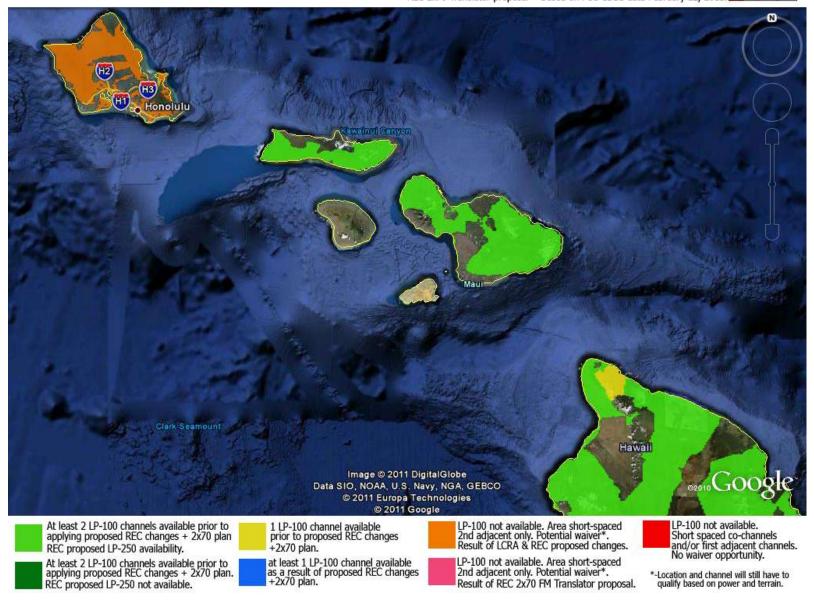
Florida

REC Networks ~ Potential LPFM Availability Map REC 2x70 Translator proposal ~ Based on FCC CDBS data February 12, 2011.



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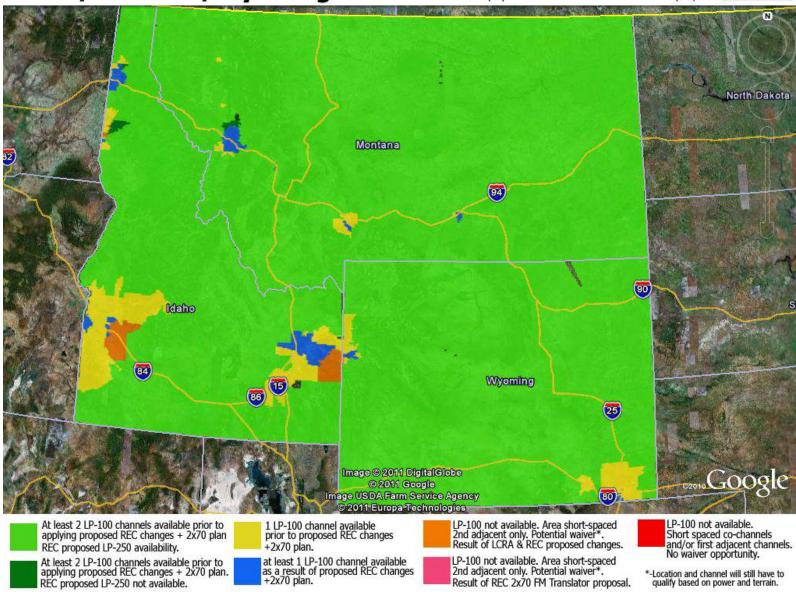
Hawai'i



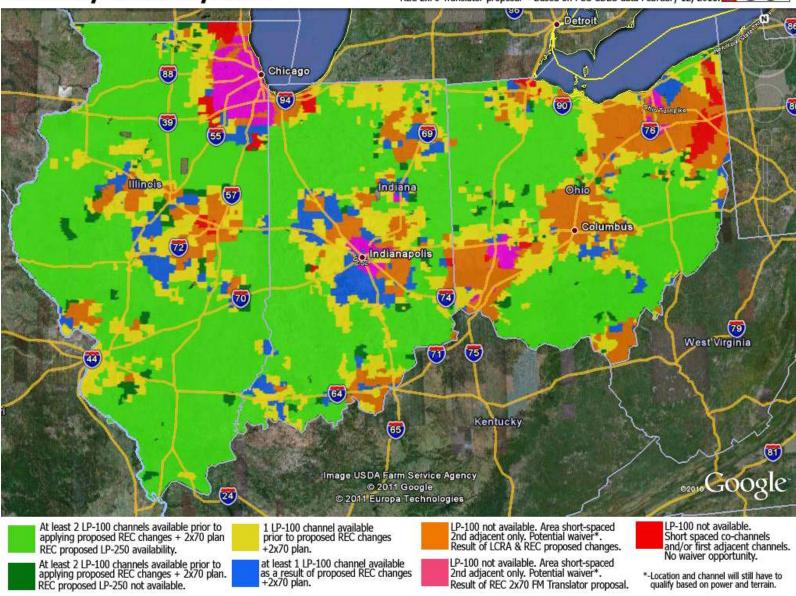
Iowa

REC Networks ~ Potential LPFM Availability Map
REC 2x70 Translator proposal ~ Based on FCC CDBS data February 12, 2011. 18 Sloux City 20 61 6 Davenpo Des Moines 280 (680) (35) Lincoln Image USDA Farm Service Agency 5000 Google @ 2011 Google © 2011 Europa Technologies At least 2 LP-100 channels available prior to applying proposed REC changes + 2x70 plan LP-100 not available. Area short-spaced 2nd adjacent only. Potential waiver*. Result of LCRA & REC proposed changes. 1 LP-100 channel available prior to proposed REC changes +2x70 plan. LP-100 not available. Short spaced co-channels and/or first adjacent channels. No waiver opportunity. REC proposed LP-250 availability. at least 1 LP-100 channel available as a result of proposed REC changes +2x70 plan. LP-100 not available. Area short-spaced 2nd adjacent only. Potential waiver*. At least 2 LP-100 channels available prior to applying proposed REC changes + 2x70 plan. REC proposed LP-250 not available. *-Location and channel will still have to Result of REC 2x70 FM Translator proposal. qualify based on power and terrain.

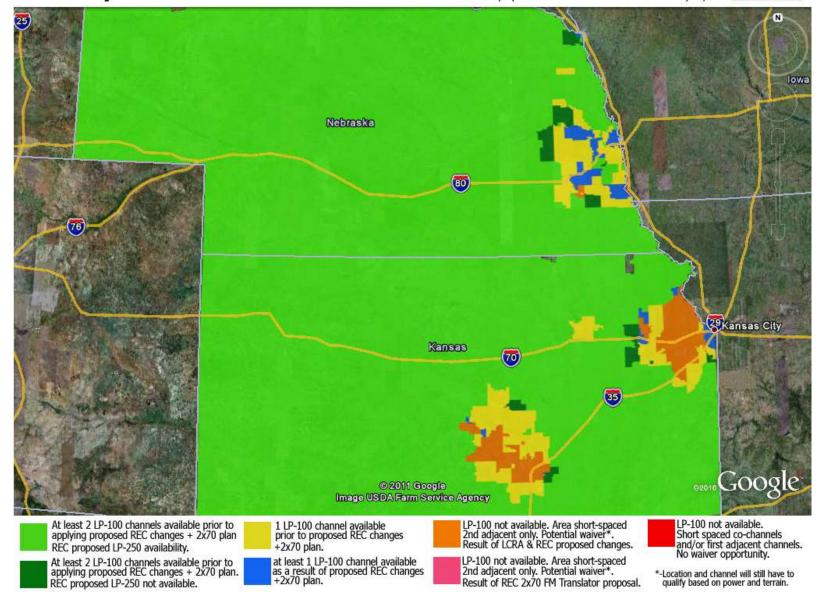
Idaho/Montana/Wyoming



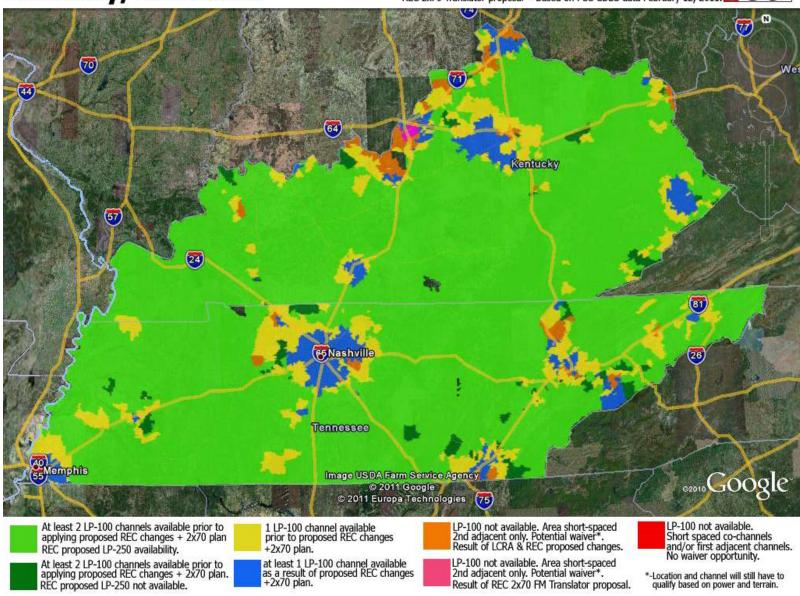
Illinois/Indiana/Ohio



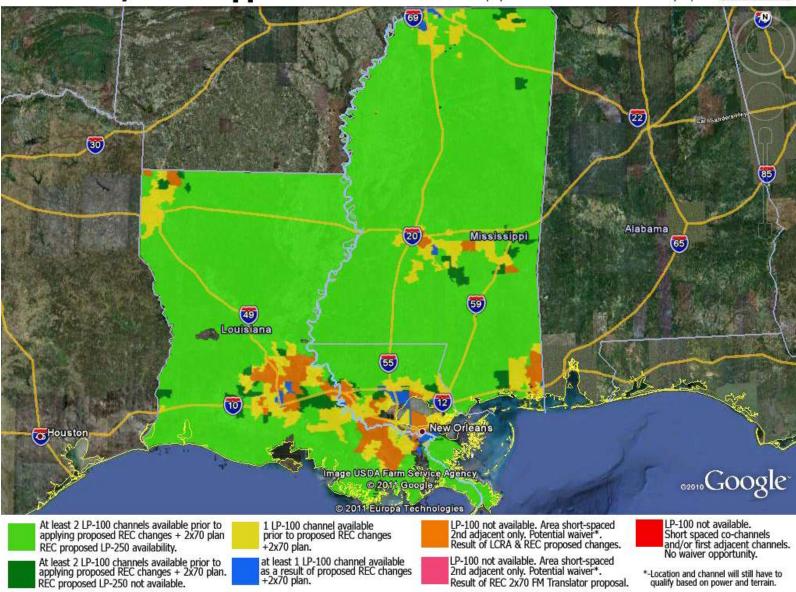
Kansas/Nebraska



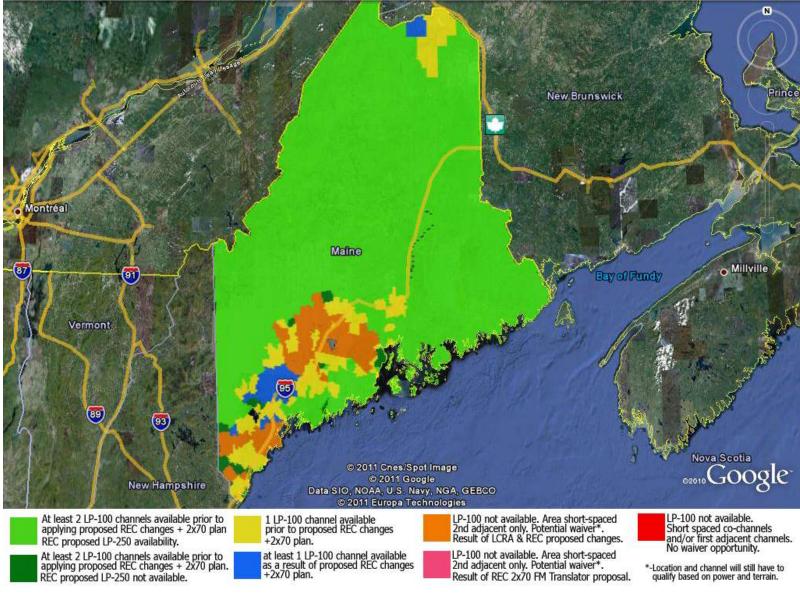
Kentucky/Tennessee



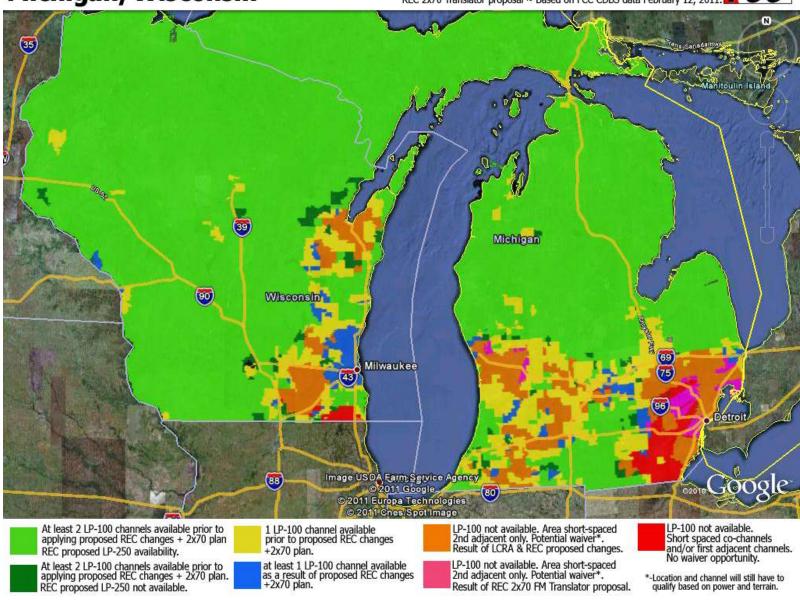
Louisiana/Mississippi



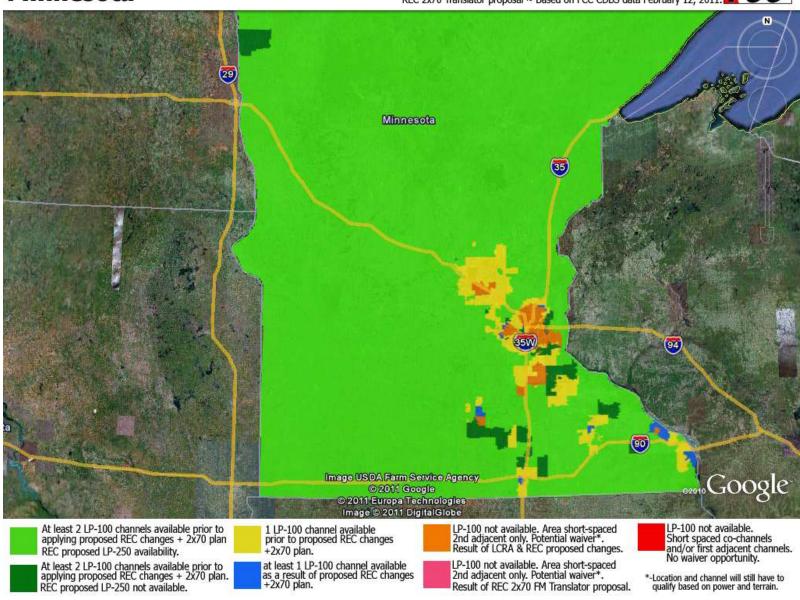
Maine



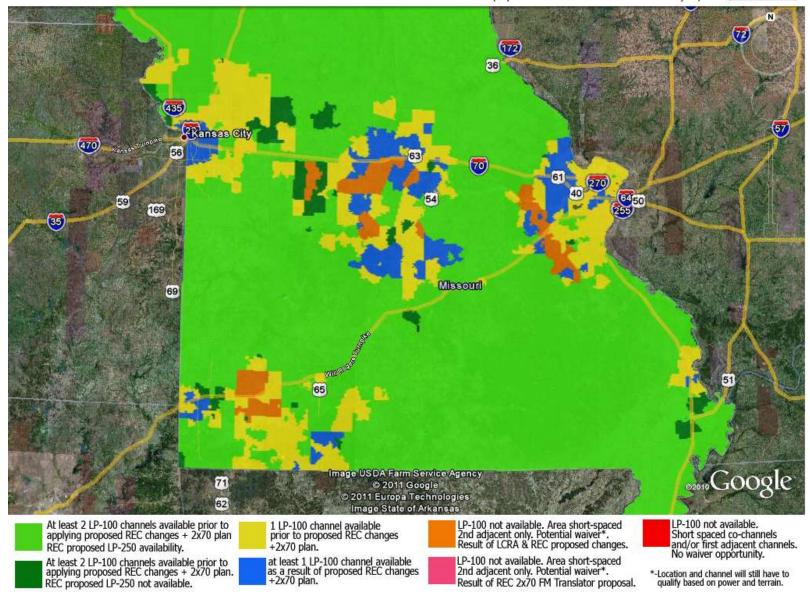
Michigan/Wisconsin



Minnesota

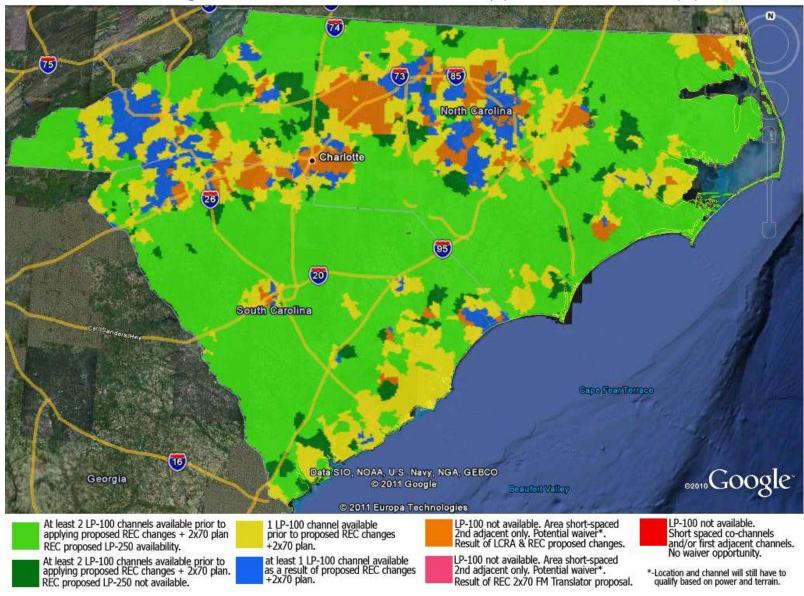


Missouri

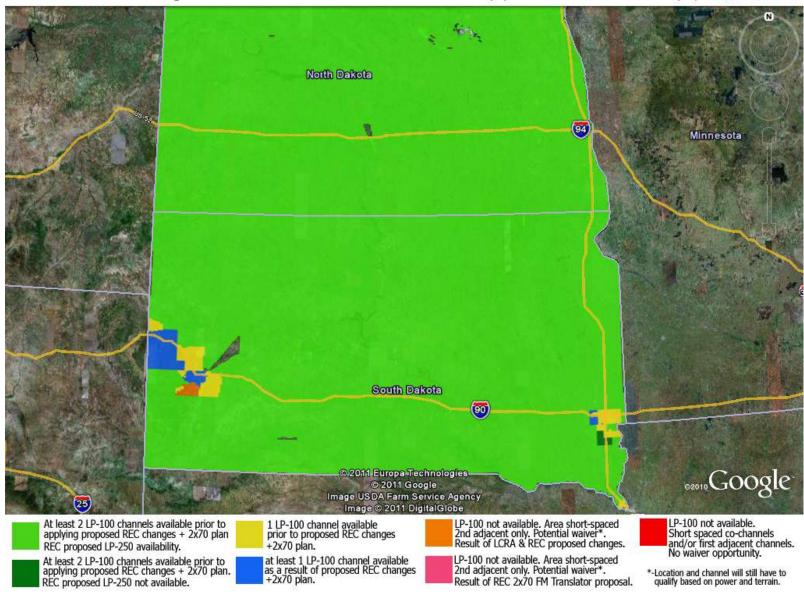


North Carolina/South Carolina

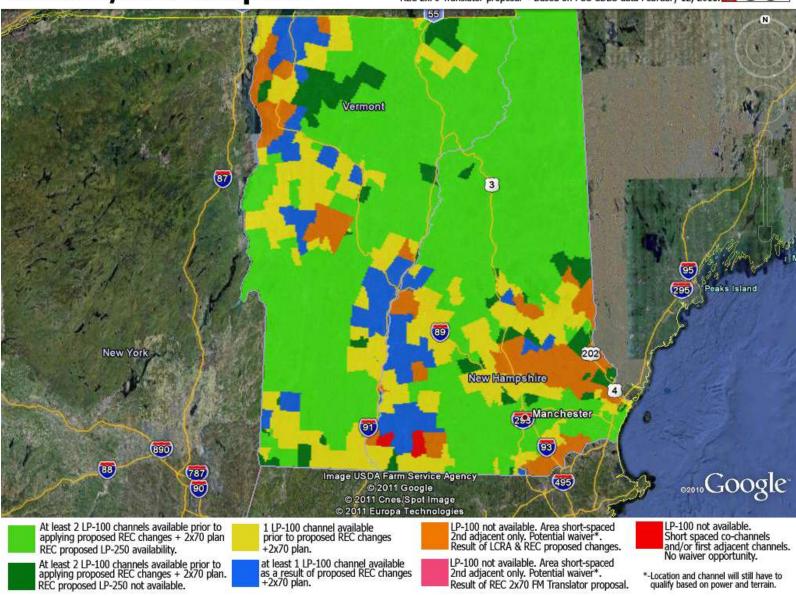




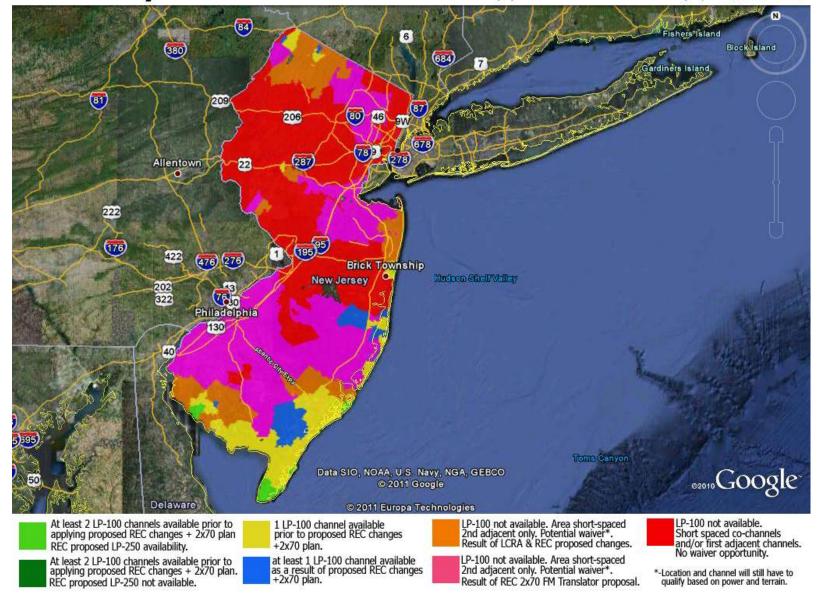
North Dakota/South Dakota



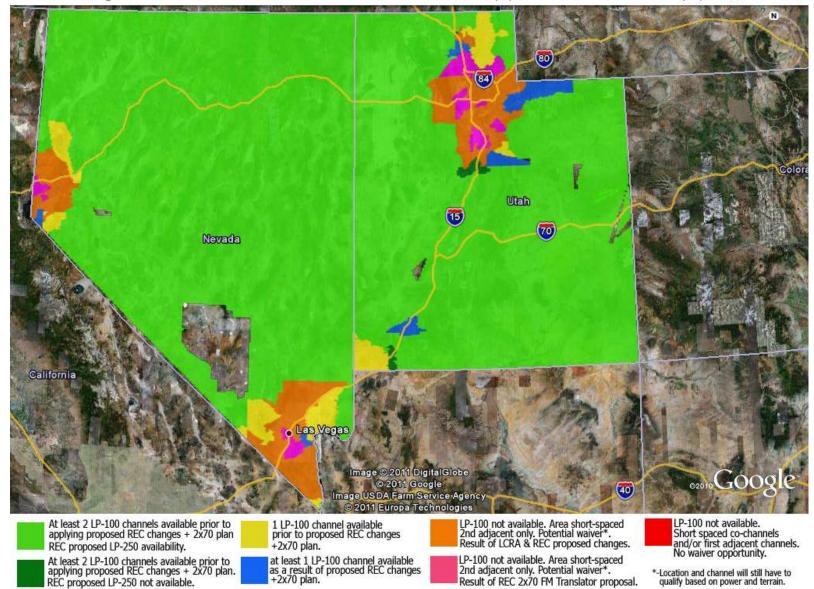
Vermont/New Hampshire



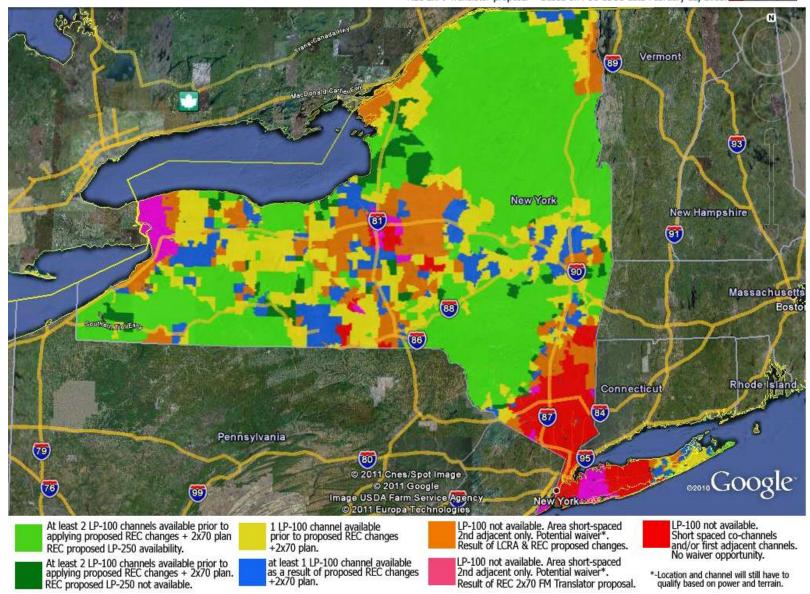
New Jersey



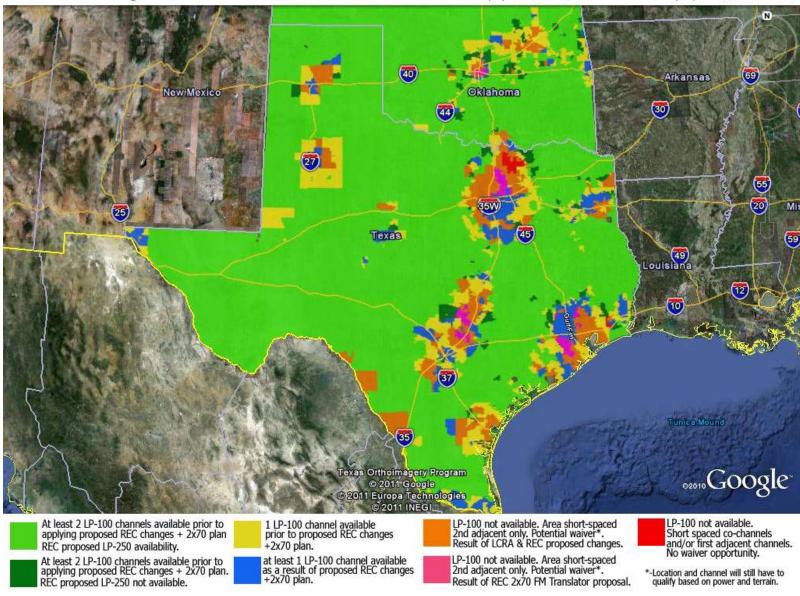
Nevada/Utah



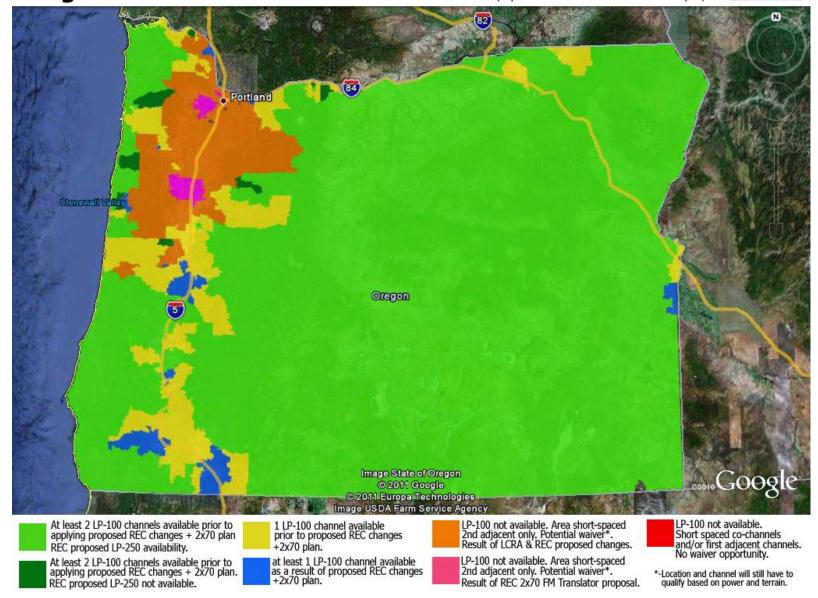
New York



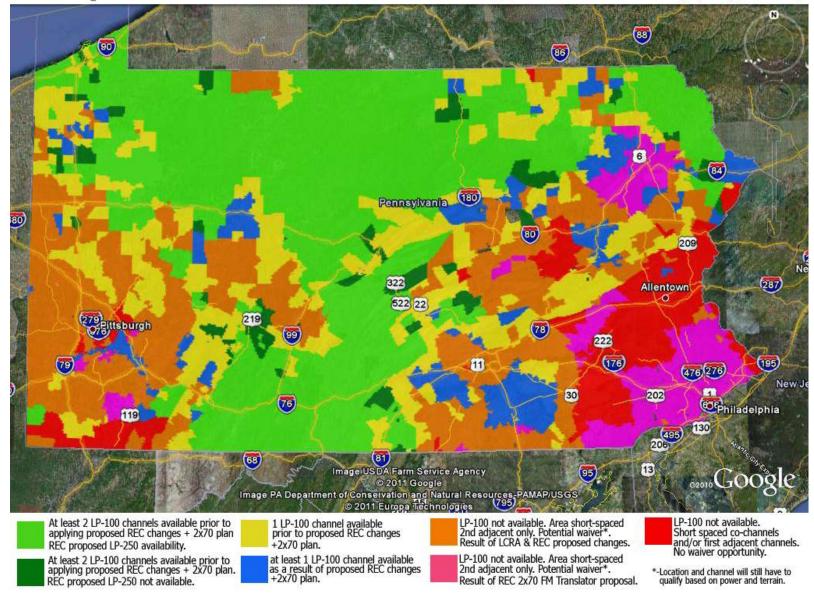
Oklahoma/Texas



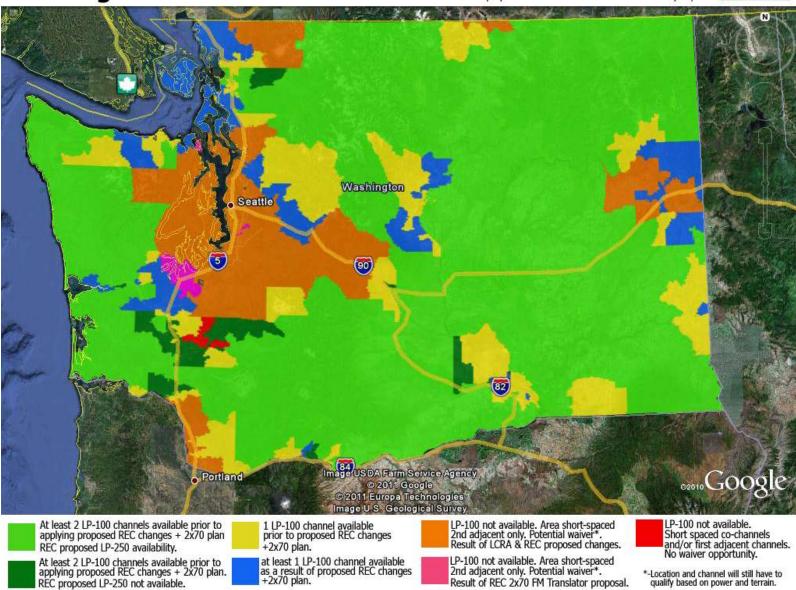
Oregon

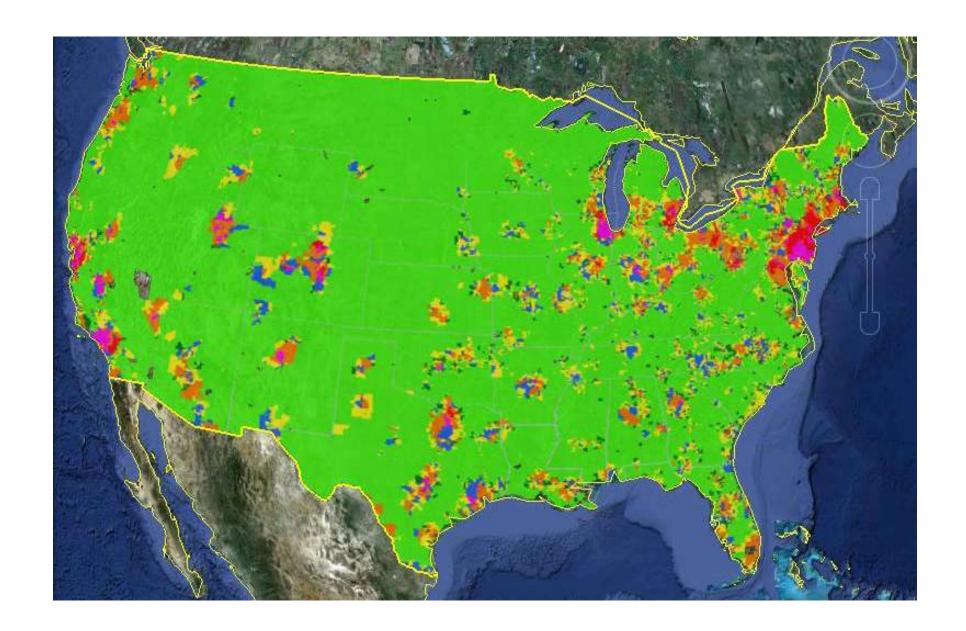


Pennsylvania



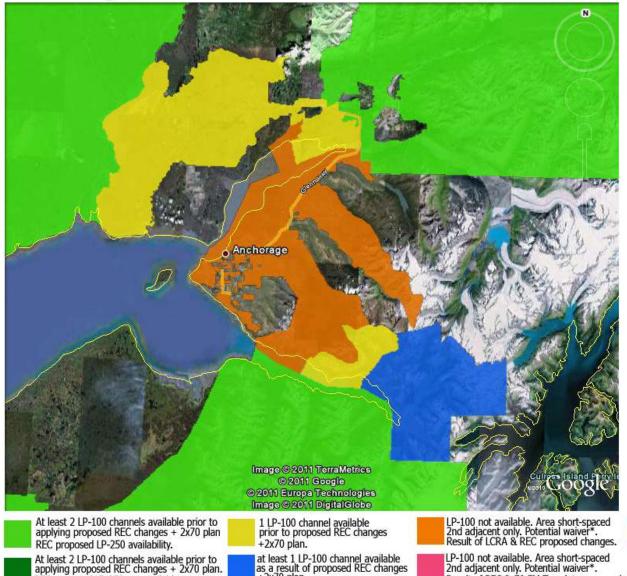
Washington





Anchorage, AK

REC Networks ~ Potential LPFM Availability Map
REC 2x70 Translater proposal ~ Based on FCC CDBS data February 12, 2011.



at least 1 LP-100 channel available as a result of proposed REC changes +2x70 plan.

Remainder of Alaska has at least 2 LP-100 channels available.

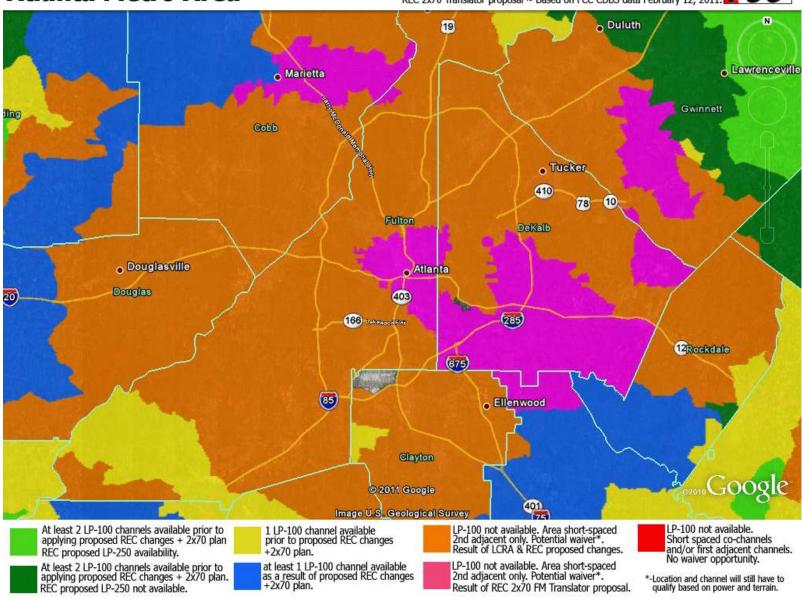
> LP-100 not available. Short spaced co-channels and/or first adjacent channels. No waiver opportunity.

*-Location and channel will still have to qualify based on power and terrain.

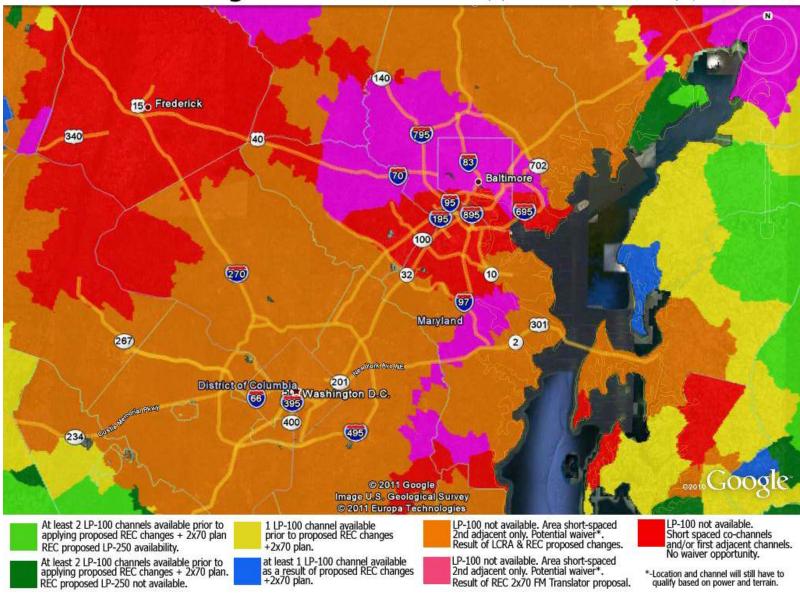
At least 2 LP-100 channels available prior to applying proposed REC changes + 2x70 plan. REC proposed LP-250 not available.

Result of REC 2x70 FM Translator proposal.

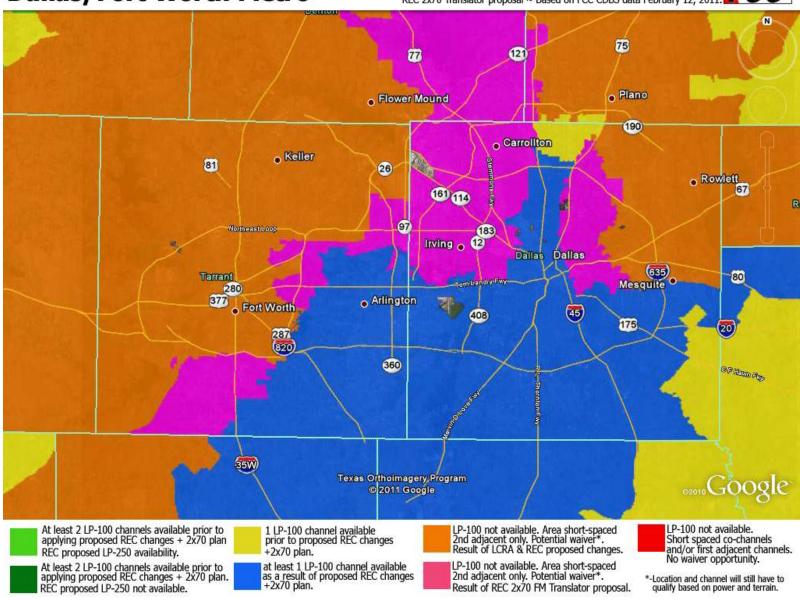
Atlanta Metro Area



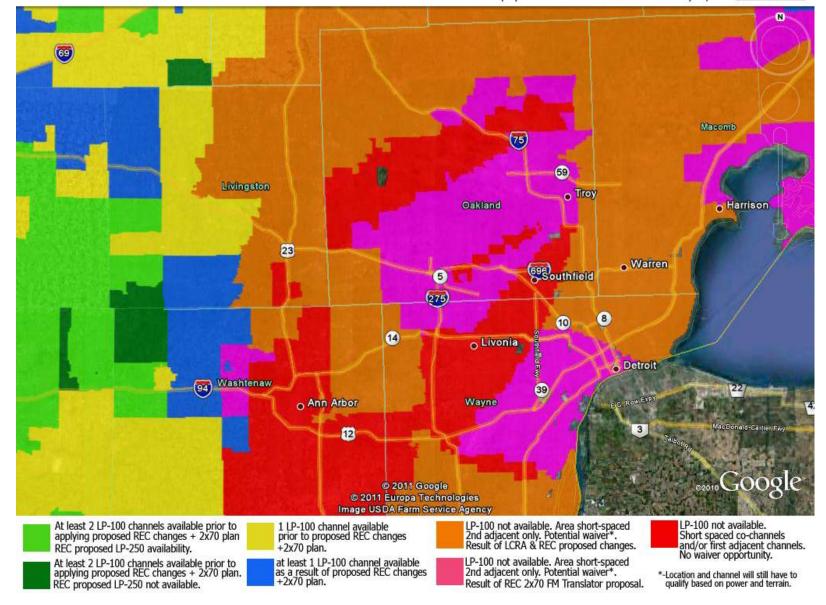
Baltimore-Washington Metro



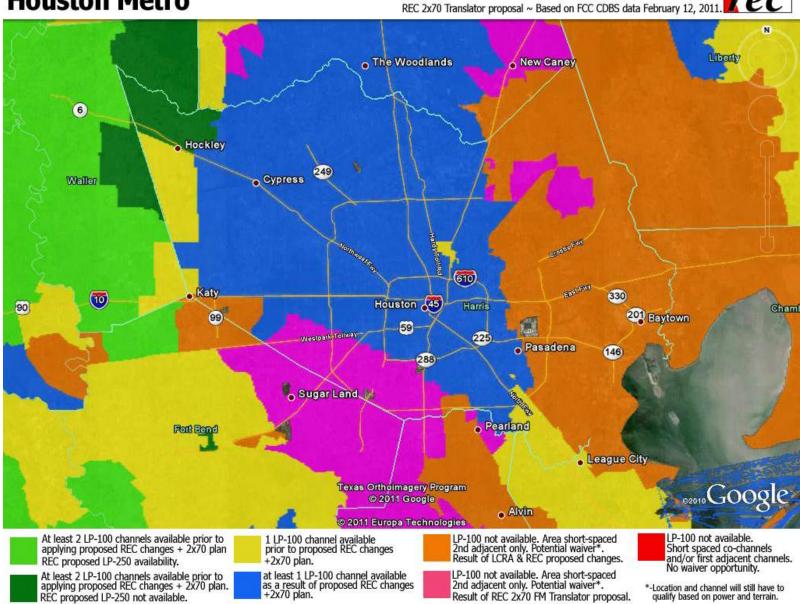
Dallas/Fort Worth Metro



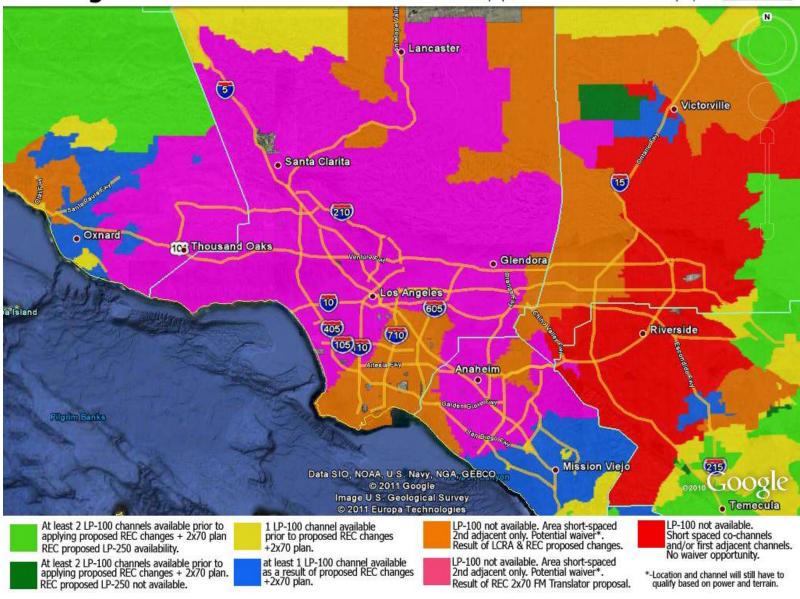
Detroit Metro



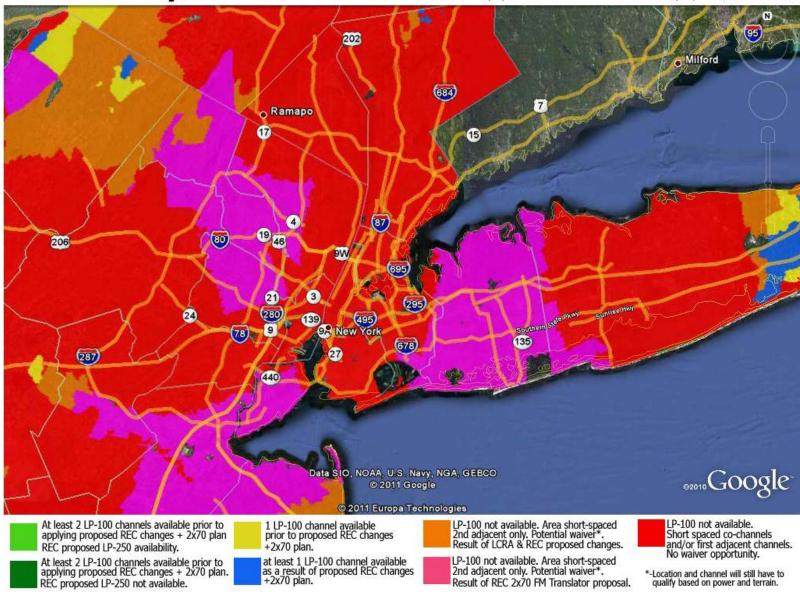
Houston Metro



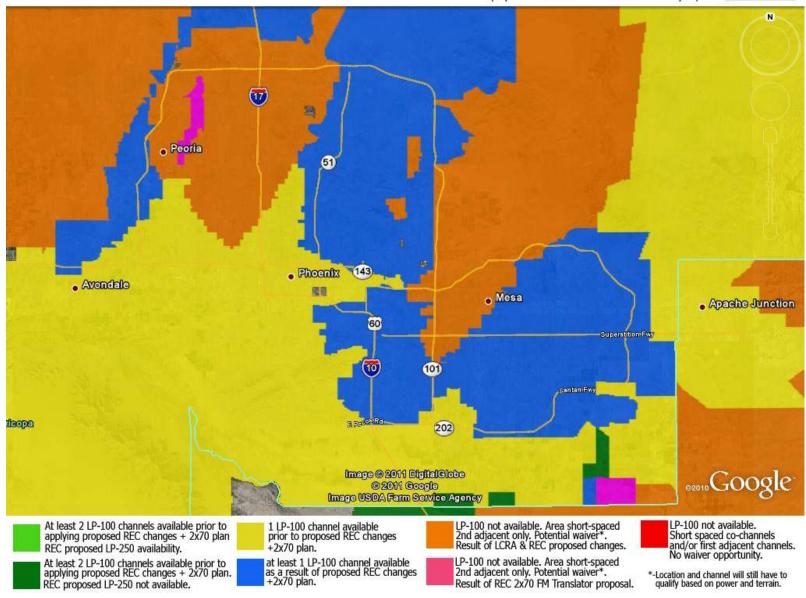
Los Angeles Metro



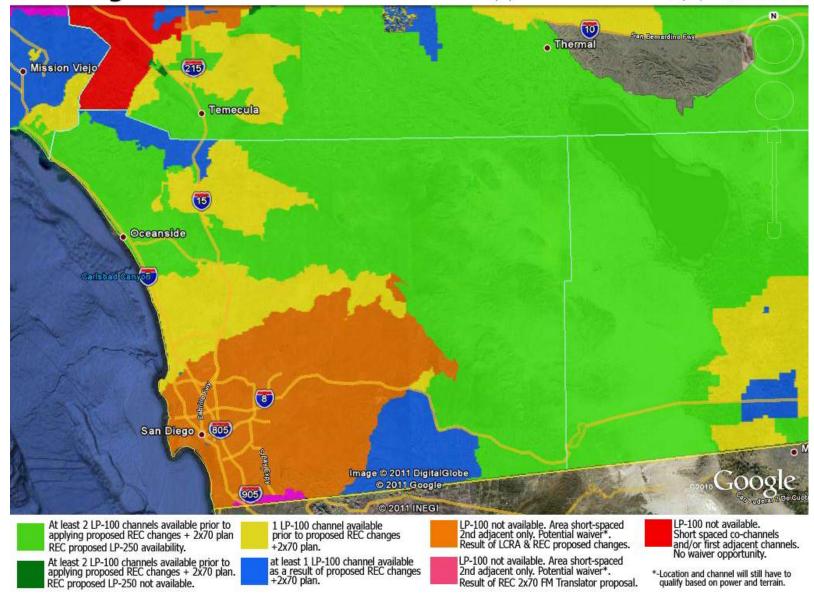
New York City Metro



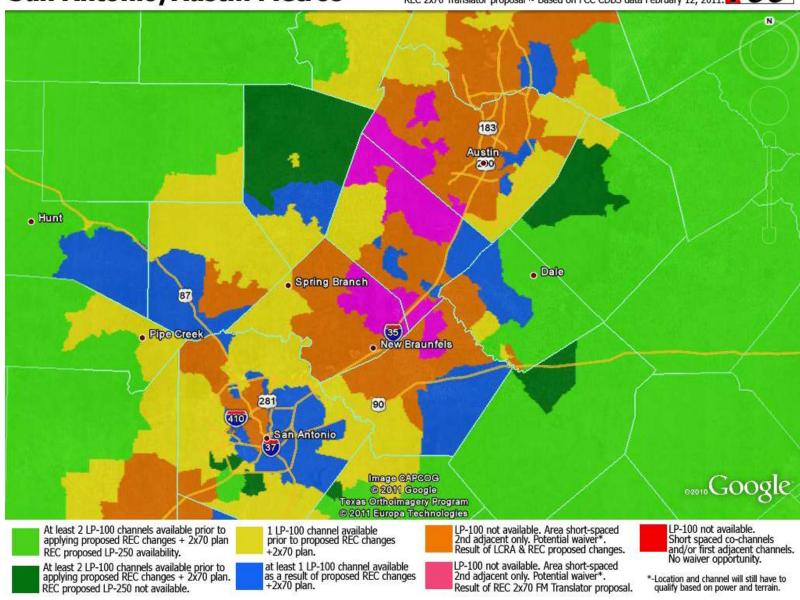
Phoenix Metro



San Diego Metro



San Antonio/Austin Metros



San Francisco Bay Area

